APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/445,769	04/19/2000	DO-HYOUNG KIM	Q57164	1355

7590	03/31/2004

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EXAMINER
PEYTON, TAMMARA R

ART UNIT	PAPER NUMBER
2182	19

DATE MAILED: 03/31/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _3_ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on _26 November 2003_ .

2a)☐ This action is **FINAL**. 2b)☒ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) _1-10_ is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) _1-10_ is/are rejected.

7)☒ Claim(s) _11_ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☐ The drawing(s) filed on _____ is/are: a)☐ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11)☐ The proposed drawing correction filed on _____ is: a)☐ approved b)☐ disapproved by the Examiner.

    If approved, corrected drawings are required in reply to this Office action.

12)☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

13)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____ .

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

14)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).

    a) ☐ The translation of the foreign language provisional application has been received.

15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

1)☒ Notice of References Cited (PTO-892)
2)☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3)☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____ .
4)☐ Interview Summary (PTO-413) Paper No(s). _____ .
5)☐ Notice of Informal Patent Application (PTO-152)
6)☐ Other: .

DETAILED ACTION

Claim Objections

Claim 11 is objected to because of the following informalities: claim 11 is a duplicate of claim 9. Appropriate correction is required.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

1.   Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Mano et al.,* (US 5,793,366) in view of *Lawande et al.,* (U.S. 6,405,247).

2.   As per claims 1, 4-7, *Mano* teaches a method for displaying changes in operation states of network devices on a display screen of a client device which operates as a client in a network (via IEEE 1394) where various digital devices connected to the network operate as the client or as servers (depending on specific operations), the method comprising the steps of:

- establishing a communication channel by the client device with respect to server

  devices; (obvious in 1394 plug and play)

- receiving a signal that indicates changes in the operation states of the server

  devices from the server device(s) by the client device (col. 5, lines 7-16) and

  displaying the change in the operation state of a specific device on a screen

  thereof. (Abstract, col. 2, lines 61- col. 3, lines 1-31, col.4, lines 35-col. 5, lines

  1-5 and 18-53, col. 7, lines 35-col. 8, lines 1-46)

3.   *Mano* teaches a computer network with GUI that displays animated images

representing devices coupled to a bus structure. The GUI will recognize signals from the

various digital devices referring to a change in the operation state of at least one digital

device and displaying the change in the operation state on a screen. It would have

been obvious to one of ordinary skill that *Mano's* method of displaying the changes of

the operation state of the devices on a screen is trigged by a predetermined signal,

such a signal would give the user the ability to monitor the activity of the connected

devices in real-time. However, *Mano* is silent in respect to a network having various

digital devices connected to the network as a client or servers and the devices having a

protocol layer as an Internet protocol stack on the upper network communication layer.

4.   *Lawande* teaches a method and apparatus for operating the Internet protocol

over a high-speed serial bus (IEEE 1394) so as to allow different modules to be inserted

or removed from the network without disturbing the on-going traffic on the system (col.

16, lines 8-38). *Lawande* has not explicitly disclosed the HTTP (Hypertext transmission

protocol) as the client/server protocol. However, it would have been obvious to one

skilled in the art to use HTTP as a client/server protocol in *Lawande* because *Lawande*

uses TCP/IP Internet protocols and HTTP is used probably exclusively with the TCP

(Transmission Control Protocol) at the time the invention was made. The ability to insert

or remove different modules from the network without disturbing the on-going traffic on

the system would have motivated one skilled in the art to integrate the IEEE 1394

protocol as taught by *Mano* with the IP protocol in which the IEEE 1394 high speed

serial bus operates.

5.   As per claim 2, *Mano* teaches of detecting the presence of the client device by

monitoring said communication channel that determines that a new device has just

been coupled to the bus. *Mano* obviously teaches wherein the client device establishes

with respect to the server device via a polling method. (col. 5, lines 7-16)

5.   As per claim 3, *Mano* teaches of the client device establishing the communication

channel with respect to the server device. However, *Mano* does not teach the use of a

Java applet. Nonetheless, it would have been obvious to one of ordinary skill that Java

applet applications are well known in the art. Further, *Mano* teaches of using GUIs that

provides real-time displays of animated images representing devices coupled to a bus

structure. Therefore, *Mano* would have been motivated to implement Java applets into

the GUI in order to expand the flexibility of *Mano's* real-time displays of devices coupled

to the bus structure.

6.   As per claims 8 -10, *Mano* teaches wherein said operation states comprise at

least one play, tray-open, pause, and stop.

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Tammara Peyton whose telephone number is (703)

306-5508. The examiner can normally be reached between 6:30 - 4:00 from Monday to

Thursday, (I am off every first Friday), and 6:30-3:00 every second Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Jeffrey A. Gaffin, can be reached on (703) 308-3301. The fax phone

number for the organization where this application or proceeding is assigned is (703)

305-3718. Any inquiry of a general nature of relating to the status of this application

should be directed to the Group receptionist whose telephone number is (703) 305-

3900.

Mailed responses to this action should be sent to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231.

Faxes for Official/formal (After Final) communications or for informal or draft

communications (please label "PROPOSED" or "DRAFT") sent to:

(703) 872-9306

Hand-delivered responses should be brought to:

USTPO, 2011 South Clark Place, Customer Window
Crystal Plaza Two, Lobby Room 1B03, Arlington, VA, 22202Crystal Park II, 2121.

Tammara Peyton

March 29, 2004